0	For receiving Office use only	T		
0-1	International Application No.			
0-2	International Filing Date	·		
		07. 11. 2003		
0-3	Name of receiving Office and "PCT	07. 11. 2003		
	International Application®			
0-4	Form - PCT/RO/101 PCT Request			
	• • • • • • • • • • • • • • • • • • • •			
0-4-1	Prepared using	PCT-EASY Version 2.92		
		(updated 01. 07. 2003)		
0-5	Petition			
	The undersigned requests that the present international application be			
	processed according to the Patent			
0-6	Receiving Office (specified by the	7 7-1		
U-0	applicant)	Japan Patent Office (RO/JP)		
0-7	Applicant's or agent's file reference	YCT-884		
Title of invention METHODS FOR IMPROVING DISC		METHODS FOR IMPROVING DISCOLORATION IN		
		PULPS AND PULPS WITH IMPROVED		
		DISCOLORATION		
II	Applicant			
II-1	This person is:	applicant only		
II-2	Applicant for	all designated States except US		
11-4	Name	NIPPON PAPER INDUSTRIES CO., LTD.		
11-5	Address:	4-1, Oji 1-chome		
		Kita-ku, Tokyo 114-0002		
		Japan		
II-6	State of nationality	JP		
11-7	State of residence	JP		
III-1	Applicant and/or inventor			
III-1-1	This person is:	applicant only		
III-1-2	Applicant for	all designated States except US		
III-1-4	Name	NATIONAL INSTITUTE OF ADVANCED		
		INDUSTRIAL SCIENCE AND TECHNOLOGY		
III-1-5	Address:	3-1, Kasumigaseki 1-chome,		
		Chiyoda-ku, Tokyo 100-8921		
		Japan		
III-1-6	State of nationality	JP		
III-1-7	State of residence			
702127	Clare of residence	JP		

III-2	Applicant and/or inventor			
III-2-1	This person is:	applicant and inventor		
111-2-2	Applicant for	US only		
III-2-4	Name (LAST, First)	MIYAWAKI, Shoichi		
III-2-5	Address:	c/o Nippon Paper Industries Co., Ltd. Pulp and Paper Research Laboratory 21-1, Oji 5-chome Kita-ku, Tokyo 114-0002 Japan		
III-2-6	State of nationality	JP		
III-2-7	State of residence	JP		
III-3	Applicant and/or Inventor	O E		
III-3-1	This person is:	applicant and inventor		
III-3-2	Applicant for			
III-3-4	Name (LAST, First)	US only OCHI, Takashi		
III-3-5	Address:	c/o Nippon Paper Industries Co., Ltd.		
		Pulp and Paper Research Laboratory 21-1, Oji 5-chome Kita-ku, Tokyo 114-0002 Japan		
III-3-6	State of nationality	JP		
III-3-7	State of residence	JP		
III-4	Applicant and/or inventor			
III-4-1	This person is:	applicant and inventor		
III-4-2	Applicant for	US only		
111-4-4	Name (LAST, First)	OUCHI, Akihiko		
III-4-5	Address:	c/o National Institute of Advanced Industrial Science and Technology Tsukuba Central 5, 1-1, Higashi 1-chome, Tsukuba-shi, Ibaraki 305-8565 Japan		
III-4-6	State of nationality	JP		
111-4-7	State of residence	JP		

IV-1	Agent or common representative; or address for correspondence				
	The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent			
IV-1-1	Name (LAST, First)	SHAMOTO, Ichio			
IV-1-2	Address:	YUASA AND HARA Section 206, New Ohtemachi Bldg., 2-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-0004			
		Japan			
IV-1-3	Telephone No.	03-3270-6641			
IV-1-4	Facsimile No.	03-3246-0233			
IV-2	Additional agent(s)	additional agent(s) with same address as			
		first named agent			
IV-2-1	Name(s)	MASUI, Chuji; KOBAYASHI, Yasushi; CHIBA,			
		Akio; TOMITA, Hiroyuki; TOMIZU, Tatsuo			
v	Designation of States				
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI SK RO TR and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GQ GW ML MR			
		NE SN TD TG and any other State which is			
		a member State of OAPI and a Contracting			
		State of the PCT			
V-2	National Patent	AE AG AL AM AT AU AZ BA BB BG BR BY BZ			
	(other kinds of protection or treatment, if any, are specified between	CA CH&LI CN CO CR CU CZ DE DK DM DZ EC			
	parentheses after the designation(s) concerned)	EE ES FI GB GD GE GH GM HR HU ID IL IN			
	concerned)	IS JP KE KG KP KR KZ LC LK LR LS LT LU			
		LV MA MD MG MK MN MW MX MZ NI NO NZ OM			
		PH PL PT RO RU SC SD SE SG SK SL TJ TM			
		TN TR TT TZ UA UG US UZ VC VN YU ZA ZM			
		ZW EG PG SY			

V-5	Precautionary Designation Statement	1	
• • •	In addition to the designations made		
	under items V-1, V-2 and V-3, the		
	applicant also makes under Rule 4.9(b)		
	all designations which would be		
	permitted under the PCT except any		
	designation(s) of the State(s) indicated under item V-6 below. The applicant		
	declares that those additional		
	designations are subject to confirmation		
	and that any designation which is not	·	
	confirmed before the expiration of 15		
	months from the priority date is to be regarded as withdrawn by the applicant		
	at the expiration of that time limit.		
V-6	Exclusion(s) from precautionary	NONE	
	designations		
VI-1	Priority claim of earlier national		
	application		11 0000
VI-1-1	Filing date	07 November 2002 (07	.11.2002)
VI-1-2	Number	323718/2002	
VI-1-3	Country	JP	
VI-2	Priority document request		
	The receiving Office is requested to	VI-1	
	prepare and transmit to the International Bureau a certified copy of		
	the earlier application(s) identified		
	above as item(s):		
VII-1	International Searching Authority Chosen	Japan Patent Office	(JPO) (ISA/JP)
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's	_	
	entitlement, as at the international filing		
	date, to apply for and be granted a patent		
VIII-3	Declaration as to the applicant's	_	
VIII 0	entitlement, as at the international filing	ļ <sup>-</sup>	
	date, to claim the priority of the earlier		
	application		
VIII-4	Declaration of inventorship (only for the purposes of the designation of the	-	
	United States of America)		
VIII-5	Declaration as to non-prejudicial	_	
	disclosures or exceptions to lack of		
	novelty		
IX IX-1	Check list Request (including declaration sheets)	number of sheets	electronic file(s) attached
IX-1	Description	5 12	_
IX-3	Claims	l	
IX-4		1	<u>-</u>
1/2-4			
	Abstract	1	
IX-5 IX-7	Drawings TOTAL	1 2 21	-

## **PCT REQUEST**

	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	<b>√</b>	-
IX-17	PCT-EASY diskette	-	Diskette
IX-19	Figure of the drawings which should accompany the abstract		
IX-20	Language of filing of the International application	Japanese	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name (LAST, First)	SHAMOTO, Ichio	(Seal)
X-2	Signature of applicant, agent or common representative		
X-2-1	Name (LAST, First)	MASUI, Chuji	(Seal)
X-3	Signature of applicant, agent or common representative		
X-3-1	Name (LAST, First)	KOBAYASHI, Yasushi	(Seal)
X-4	Signature of applicant, agent or common representative		
X-4-1	Name (LAST, First)	CHIBA, Akio	(Seal)
X-5	Signature of applicant, agent or common representative		
X-5-1	Name (LAST, First)	TOMITA, Hiroyuki	(Seal)
X-6	Signature of applicant, agent or common representative		
X-6-1	Name (LAST, First)	TOMIZU, Tatsuo	(Seal)

## FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/JP
10-6	Transmittal of search copy delayed until search fee is paid	

## FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by		
	the International Bureau	<u> </u>	 